100-KL

RAZVOJ ČOVJEKA DO NARODJENJA.

PRILOG
K
„LIJEČNICA U KUĆI"
OD DR. MED. JENNY SPRINGER.

NAKLADA
DRESDENSKA NAKLADNA KNJIŽARA M. O. GROH, DRESDEN
ZAGREB.

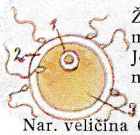
16220

Razvoj čovjeka do narodjenja.

Oplodjenje. Položaj trbušnih organa i utrobe.

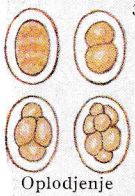
Muške sjemenke pod mikroskopom, 500 put povećane.

Glava i rep sjemenskih životinjica.

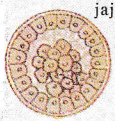


Žensko jaje opkoljeno muškim sjemenkama. Jedna jedincata životinjica dostaje za oplodnju.

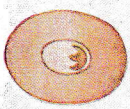
Nar. veličina 0,2 mm.
1. Klični puljak (mjehurić). 2. Prozirna zona. 3. Žumanjak.



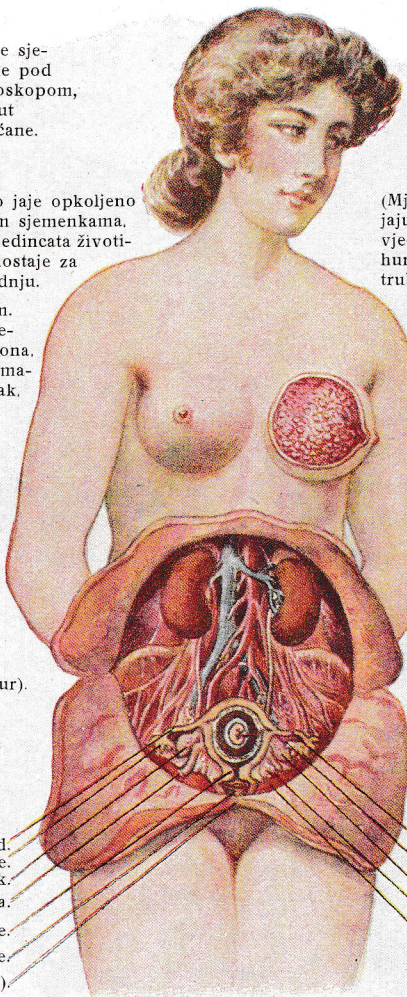
Oplodjenje jajeta.



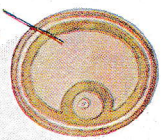
Klični puljak (mjehur).



Klični puljak sa zametištem.



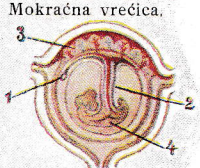
Desni jajovod.
Maternične trubljice.
Desni jajnik.
Maternica.
Grljak maternice.
Ušće maternice.
Prohod (maternice).



Jajni mješnik Graafov, 500 poveć.

Jajni mješnik Graafov. (Mjehurići, što se u jajniku razvijaju). U tim mjehurićima je čovječje jaje, čim jaje dozrije, mjehurići puknu. Jaje dolazi kroz trubljicu u jajovod, a odavle u maternicu.

Dužinski presjek čovječjeg jajeta.
1. Vodenjak (košuljica)
2 Embrio nasad.
3. Požumanjka (vreća).
4. Mokraćna vrećica.



Presjek kroz oplodjenu maternicu u doba, kad se razvije plodva (mat. kolač).
1. Požumanjka. 2. Pupčanik (trak) nastao iz mokraćne vrećice. 3. Postanak plodve. 4. Embrio.

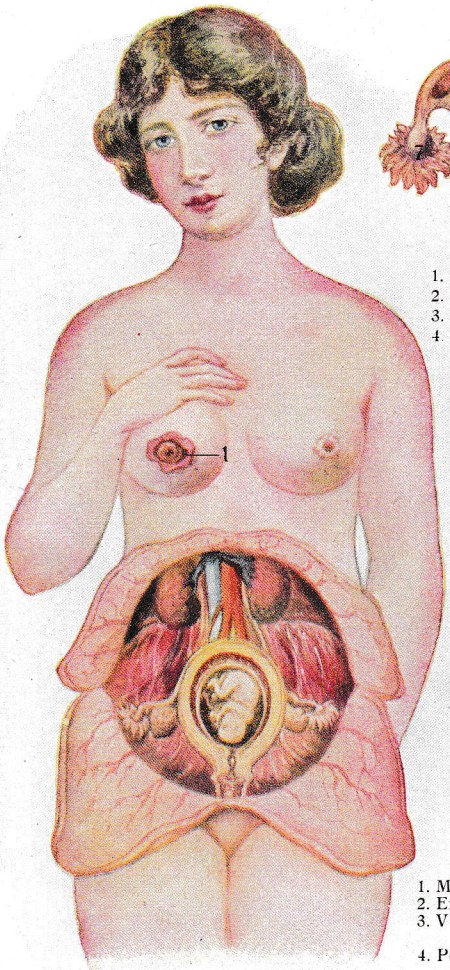
Lijevi jajovod.
Maternične trubljice.
Lijevi jajnik.
Lijeva široka veza maternice.
Lijeva okrugla veza maternice.

Vanjski i nutarnji dijelovi ženskih spolnih udova.
U maternici 1 jaje mjesec dana staro.
Utroba je još u normalnom položaju.
Otvorena sisa pokazuje mliječne žlijezde.

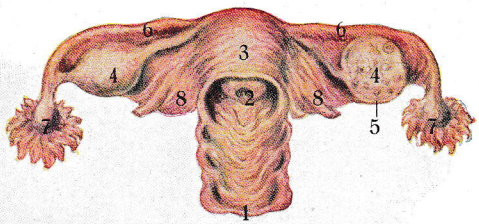
Tabla 2.

Razvoj čovjeka do narodjenja.

Normalni tok u prvim mjesecima.

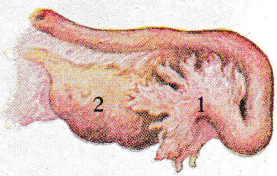


Maternica s plodom 3 mjeseca starim.
Skinuta koža sa pupčića od sise.

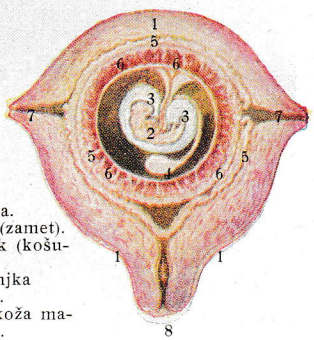


1. Prohod (maternice)
2. Ušće maternice.
3. Maternica.
4. Jajnici.
5. Presjek jajnika.
6. Jajovod.
7. Maternične trubljice.
8. Veze maternice.

Maternica u djevičanskoj veličini.



Maternična trubljica (1)
vezana s jajnikom (2), kroz koji
prolazi jaje u jajovod.

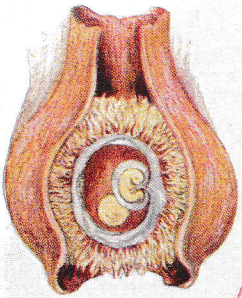


1. Maternica.
2. Embrio (zamet).
3. Vodenjak (košuljica).
4. Požumanjka (vreća).
5. Sluzna koža maternice.
6. Plodnja žilovnica (resica).
7. Ušće jajovoda
8. Ušće maternice

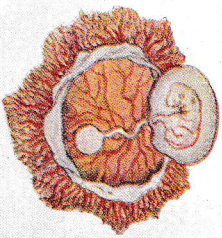
Maternica u oplodjenom (trudnom) stanju.

Razvoj čovjeka do narodjenja.

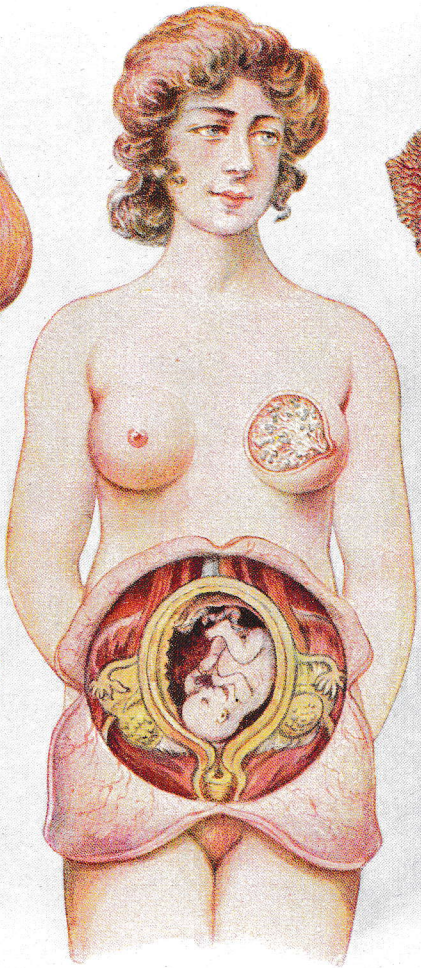
Normalni tok razvoja čovječjeg embria u srednjim mjesecima.



2—3 tjedna staro jaje u maternici.

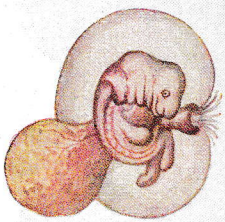


6 tjedana staro jaje s plodom. $^1/_2$ naravne veličine.



Maternica s plodom 7 mjeseci starim. Otvorena sisa pokazuje žlijezne resice.

3—4 tjedna stari embrio.



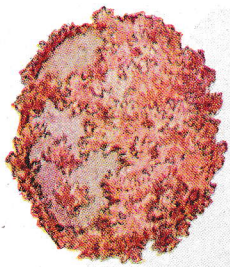
Oko 6 tjedana stari embrio.

8 tjedana stari embrio.

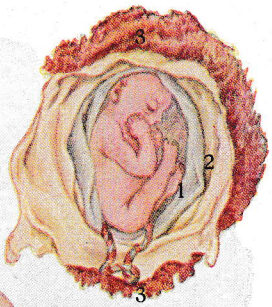
Tabla 4.

Razvoj čovjeka do narodjenja.

Normalni tok razvoja ploda u zadnjim mjesecima.

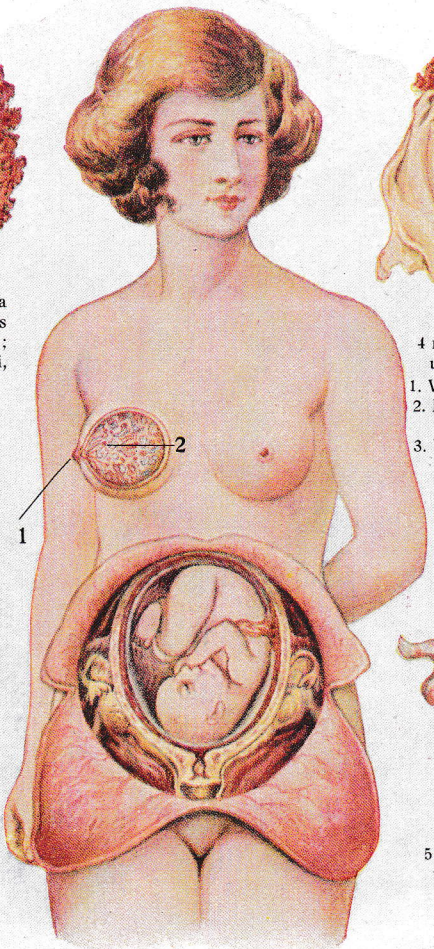


Vanjština čovječjeg jajeta u 3. mjesecu trudnoće s resicama plodnje žilovnice; desna resica još postoji, lijeva je propala.



4 mjeseca stari plod u jajnim ovojima.
1. Vodenjak (Amnion).
2. Plodnja žilovnica (Chorion).
3. Dijelovi plodve.

3 mjeseca stari plod u $^1/_2$ nar. veličine, oko 350 g težak.

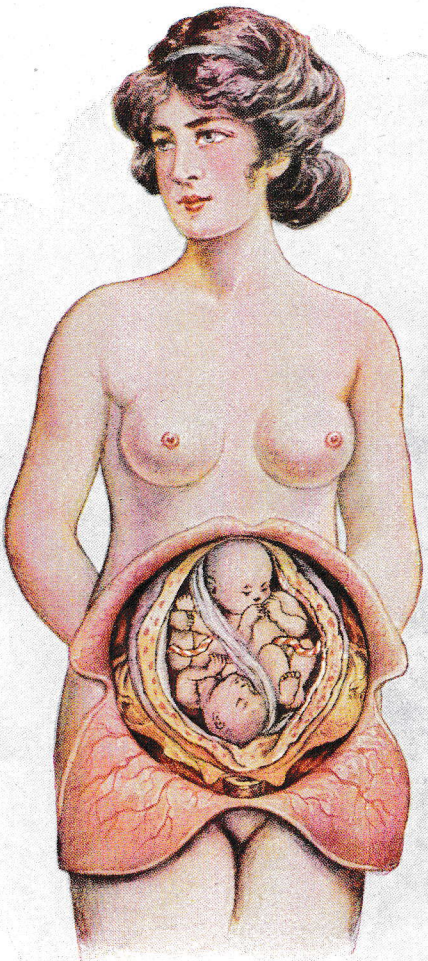


8 mjeseci stari plod u normalnom položaju.
1. Mlijekovodi (izvodnice).
2. Žlijezne resice.

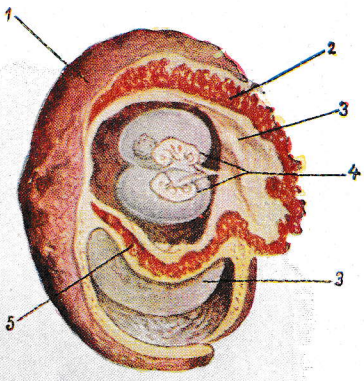
5 mjeseci stari plod u $^1/_4$ nar. veličine, oko 550 g težak.

Razvoj čovjeka do narodjenja.

Dvojci i razvoj glave u djeteta.

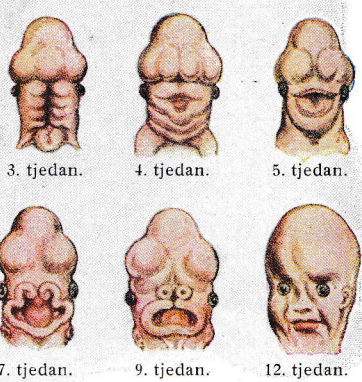


Maternica s dvojcima, 6 mjeseci starima. Svaki plod ima svoj vodenjak (košuljicu) i plodvu (matern. kolač).



5—6 tjedana stari dvojci sa zajedničkom plodvom, ali posebnim vodenjacima (2).

1. Rešetnica (koža).
2. Plodnja žilovnica (resice), iz koje se kasnije razvije plodva.
3. Plodnja žilovnica (Chorion).
4. Oba vodenjaka (košuljice) s embrijima.
5. Resice (kudra), koje kasnije zakržljave.

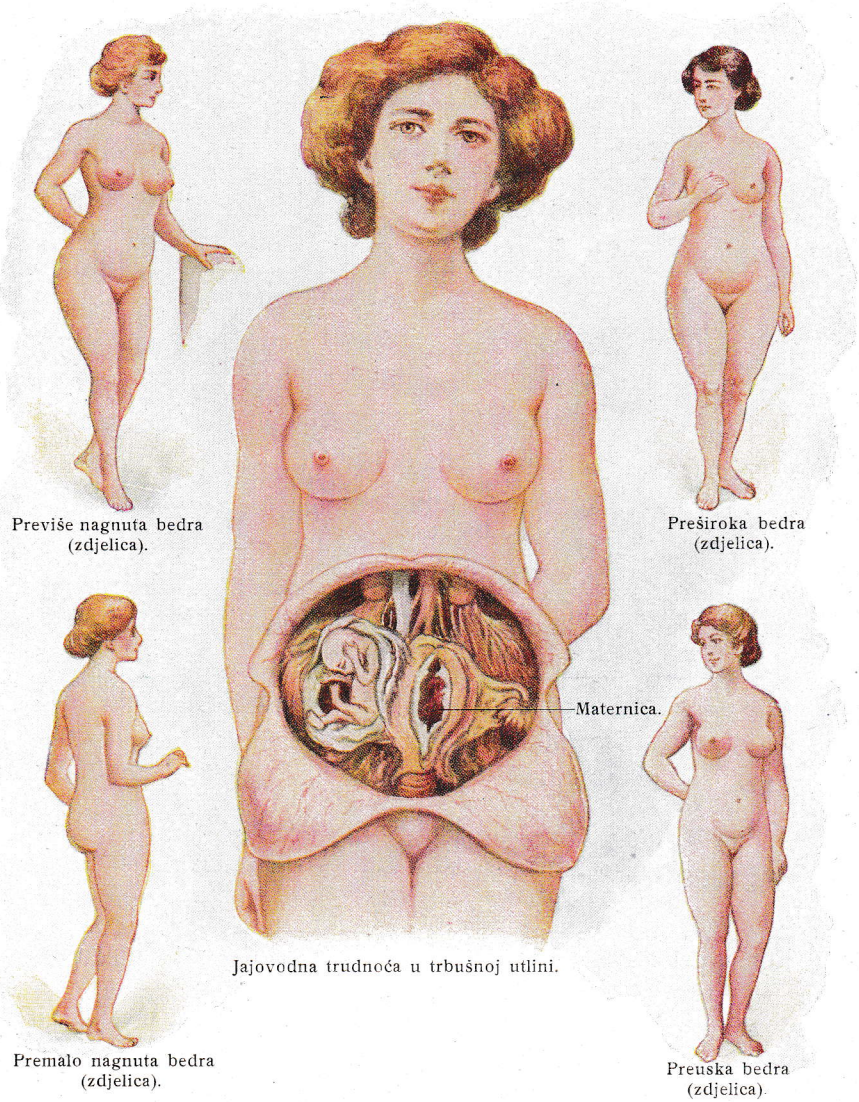


Razvoj glave u embria izmedju 3. i 12. tjedna.

Tabla 6.

Razvoj čovjeka do narodjenja.

Trudnoća u jajovodima i anormalna bedra (zdjelica).

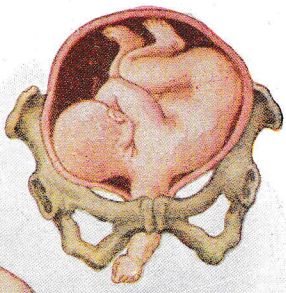


Jajovodna trudnoća u trbušnoj utlini.

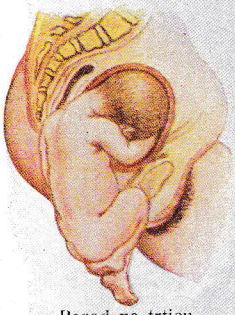
Razvoj čovjeka do narodjenja.

Anormalni položaji djeteta.

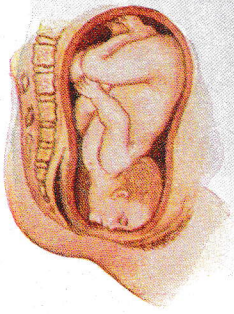
Porod na noge.



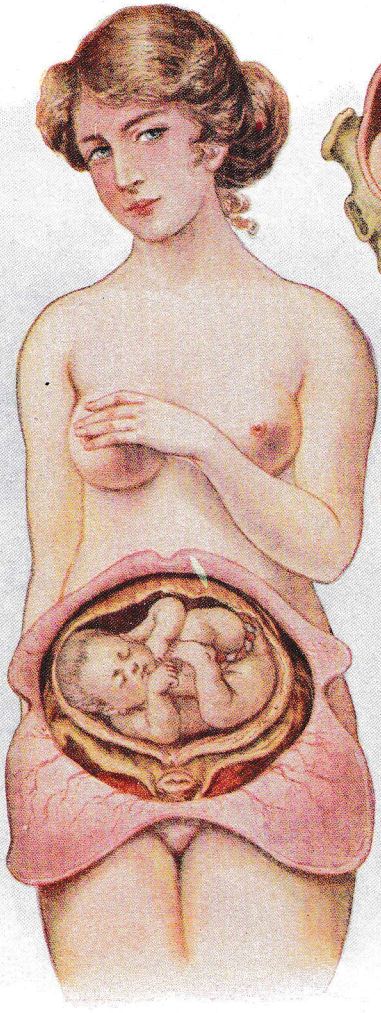
Porod na hrbat (nauznak).



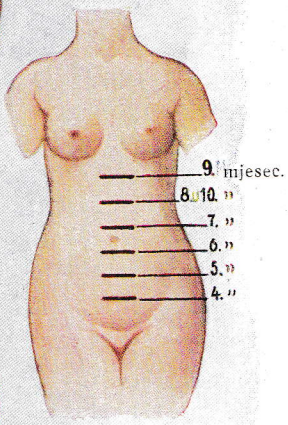
Porod na trticu (trtičnu kost).



Porod na lice.



Maternica s krivo položenim plodom (nauznak).

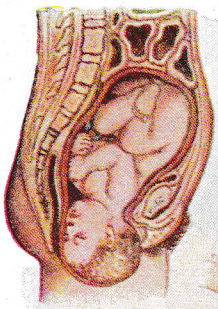


Položaj maternice za vrijeme trudnoće.

Tabla 8

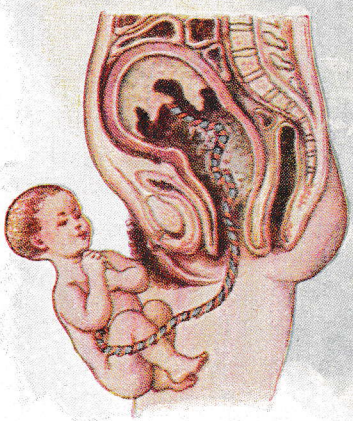
Razvoj čovjeka do narodjenja.

Porod pri normalnom položaju glave.

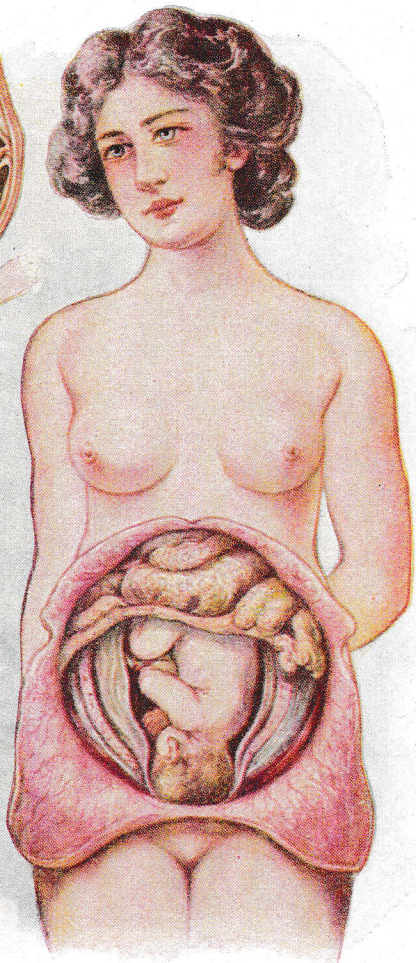


Probijanje glave kroz prohod maternice.

Izlazak glave.



Dijete se narodilo, ali se još drži pupkovine. Plodva još nije izbačena. Pupkovina se mora podvezati tik pred vanjskim spolnim udom.



Položaj nutarnjih organa kod trudne žene u 10. mjesecu. Maternica s plodom. Glava se djeteta još nalazi u maloj zdjelici. Trudovi (provale) počinju.